## SEQUENCE LISTING

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agt ca Ser Gl															290
cct gg Pro Gl															338
gac ga Asp As 11	p Ile														386

						~~~	<b>+</b> ~~	999	++0	G2.G	taa	asc	220	ttc	434
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cct ca Pro Hi	c ctc s Leu	tcc Ser 160	ctt Leu	gag Glu	ggc Gly	ttc Phe	aag Lys 165	gaa Glu	gga Gly	ggc	att Ile	cag Gln 170	ctg Leu	agg Arg	530
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cac ca His Gl	n Gly	cag Gln	tgc Cys	ctg Leu	cct Pro 195	cca Pro	gag Glu	ttt Phe	gaa Glu	gcc Ala 200	atc Ile	gtc Val	tgg Trp	gat Asp	626
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- Glu Pro Ser Ser Glu Val Lys Val Leu Gly Pro Glu Tyr Pro Ile Leu 35 40 45
- Ala Leu Val Gly Glu Glu Val Glu Phe Pro Cys His Leu Trp Pro Gln 50 55 60
- Leu Asp Ala Gln Gln Met Glu Ile Arg Trp Phe Arg Ser Gln Thr Phe 65 70 75 80
- Asn Val Val His Leu Tyr Gln Glu Gln Gln Glu Leu Pro Gly Arg Gln 85 90 95
- Met Pro Ala Phe Arg Asn Arg Thr Lys Leu Val Lys Asp Asp Ile Ala 100 105 110
- Tyr Gly Ser Val Val Leu Gln Leu His Ser Ile Ile Pro Ser Asp Lys 115 120 125
- Gly Thr Tyr Gly Cys Arg Phe His Ser Asp Asn Phe Ser Gly Glu Ala
- Leu Trp Glu Leu Glu Val Ala Gly Leu Gly Ser Asp Pro His Leu Ser 145 150 155 160
- Leu Glu Gly Phe Lys Glu Gly Gly Ile Gln Leu Arg Leu Arg Ser Ser 165 170 175
- Gly Trp Tyr Pro Lys Pro Lys Val Gln Trp Arg Asp His Gln Gly Gln
  180 185 190
- Cys Leu Pro Pro Glu Phe Glu Ala Ile Val Trp Asp Ala Gln Asp Leu 195 200 205
- Phe Ser Leu Glu Thr Ser Val Val Val Arg Ala Gly Ala Leu Ser Asn 210 215 220
- Val Ser Val Ser Ile Gln Asn Leu Leu Leu Ser Gln Lys Lys Glu Leu 225 230 235 240
- Val Val Gln Ile Ala Asp Val Phe Val Pro Gly Ala Ser Ala Trp Lys 245 250 255
- Ser Ala Phe Val Ala Thr Leu Pro Leu Leu Leu Val Leu Ala Ala Leu 260 265 270

Ala Leu Gly Val Leu Arg Lys Gln Arg Arg Ser Arg 275 280	g Glu Lys Leu Arg 285
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cct gag tat ccc atc ctg gcc ctc gtc ggg gag gag Pro Glu Tyr Pro Ile Leu Ala Leu Val Gly Glu Glu 45 50	
tgc cac cta tgg cca cag ctg gat gcc cag caa atg Cys His Leu Trp Pro Gln Leu Asp Ala Gln Gln Med 60 65 70	
ttc cgg agt cag acc ttc aat gtg gta cac ctg tag Phe Arg Ser Gln Thr Phe Asn Val Val His Leu Ty: 75 80 85	
gag ctc cct ggc agg cag atg ccg gcg ttc cgg aad Glu Leu Pro Gly Arg Gln Met Pro Ala Phe Arg Asi 95 100	
gtc aag gac gac atc gcc tat ggc agc gtg gtc ctg Val Lys Asp Asp Ile Ala Tyr Gly Ser Val Val Let 110 115	
atc atc ccc tct gac aag ggc aca tat ggc tgc cgc Ile Ile Pro Ser Asp Lys Gly Thr Tyr Gly Cys Arg 125 130	

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483

	145			150			
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ctg agg ctc aga Leu Arg Leu Arg	tcc agt ggc Ser Ser Gly 175	Trp Tyr P	ecc aag Pro Lys 180	cct aag Pro Lys	gtt ca Val Gl 18	n Trp	579
aga gac cac cag Arg Asp His Gln 190	gga cag tgc Gly Gln Cys	ctg cct c Leu Pro P 195	cca gag Pro Glu	ttt gaa Phe Glu	gcc at Ala Il 200	c gtc e Val	627
tgg gat gcc cag Trp Asp Ala Gln 205	gac ctg ttc Asp Leu Phe	agt ctg g Ser Leu G 210	gaa aca Glu Thr	tct gtg Ser Val 215	gtt gt Val Va	c cga l Arg	675
gcg gga gcc ctc Ala Gly Ala Leu 220	agc aat gtg Ser Asn Val 225	tcc gtc t Ser Val S	cc atc Ser Ile	cag aat Gln Asn 230	ctc ct Leu Le	c ttg u Leu	723
agc cag aag aaa Ser Gln Lys Lys 235	gag ttg gtg Glu Leu Val 240	gtc cag a Val Gln I	ata gca Ile Ala 245	gac gtg Asp Val	ttc gt Phe Va	a ccc 1 Pro 250	771
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Met	Pro	Ala	Phe 100	Arg	Asn	Arg	Thr	Lys 105	Leu	Val	Lys	Asp	Asp 110	Ile	Ala	
Tyr	Gly	Ser 115	Val	Val	Leu	Gln	Leu 120	His	Ser	Ile	Ile	Pro 125	Ser	Asp	Lys	
Gly	Thr 130	Tyr	Gly	Cys	Arg	Phe 135	His	Ser	Asp	Asn	Phe 140	Ser	Gly	Glu	Ala	
Leu 145	Trp	Glu	Leu	Glu	Val 150	Ala	Gly	Leu	Gly	Ser 155	Asp	Pro	His	Leu	Ser 160	
Leu	Glu	Gly	Phe	Lys 165	Glu	Gly	Gly	Ile	Gln 170	Leu	Arg	Leu	Arg	Ser 175	Ser	
Gly	Trp	Tyr	Pro 180	Lys	Pro	Lys	Val	Gln 185	Trp	Arg	Asp	His	Gln 190	Gly	Gln	
Cys	Leu	Pro 195	Pro	Glu	Phe	Glu	Ala 200	Ile	Val	Trp	Asp	Ala 205	Gln	Asp	Leu	
Phe	Ser 210	Leu	Glu	Thr	Ser	Val 215	Val	Val	Arg	Ala	Gly 220	Ala	Leu	Ser	Asn	
Val 225	Ser	Val	Ser	Ile	Gln 230	Asn	Leu	Leu	Leu	Ser 235	Gln	Lys	Lys	Glu	Leu 240	
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agcg	acac	ag a	agac	aggt	g at	ttct	gcat	: ttc	cato	tga	ggca	agaa.	.ga a	itaa	atg Met 1	177
tct Ser	ctg Leu	gtg Val	gaa Glu 5	ctt Leu	ttg Leu	ctc Leu	tgg Trp	tgg Trp 10	aac Asn	tgc Cys	ttt Phe	tct Ser	aga Arg 15	act Thr	ggt Gly	225

					-/-				
			gtg Val						273
			gtc Val 40						321
			gtc Val						369
			gtc Val						417
			cac His						465
			atc Ile						513
			ctg Leu 120						561
			ggt Gly						609
			gga Gly						657
			gaa Glu						705
			ctc Leu						753
			acc Thr 200						801
			gct Ala						849
			att Ile						897
			act Thr						945
			ttc Phe						993

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agc aac aat cca a Ser Asn Asn Pro L 325		n Thr Glu Ser	
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gtc atg gta cca g Val Met Val Pro A 420		a Gly Ser Leu	
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aaaaaaaaa a			1905

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Ala Ala Leu Ile Asn Leu Asn Val Ile Trp Met Val Thr Pro Leu Ser 50 60

Asn Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly Gln Met 65 70 75 80

Phe Asp Gly Ala Pro Arg Phe His Gly Arg Val Gly Phe Thr Gly Thr 85 90 95

Met Pro Ala Thr Asn Val Ser Ile Phe Ile Asn Asn Thr Gln Leu Ser 100 105 110

Asp Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro Asp Ile Gly 115 120 125

Gly Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val Pro Pro Ser 130 135 140

Ala Pro His Cys Gln Ile Gln Gly Ser Gln Asp Ile Gly Ser Asp Val 145 150 155 160

Ile Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro Thr Tyr Leu 165 170 175

Trp Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr Ala Thr Gln
180 185 190

Asp Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser Ala Leu Ser 195 200 205

Ser Gly Leu Tyr Gln Cys Val Ala Ser Asn Ala Ile Gly Thr Ser Thr 210 220

Cys Leu Leu Asp Leu Gln Val Ile Ser Pro Gln Pro Arg Asn Ile Gly 225 230 235 240

Leu Ile Ala Gly Ala Ile Gly Thr Gly Ala Val Ile Ile Ile Phe Cys 245

Ile Ala Leu Ile Leu Gly Ala Phe Phe Tyr Trp Arg Ser Lys Asn Lys 265

Glu Glu Glu Glu Glu Ile Pro Asn Glu Ile Arg Glu Asp Asp Leu

Pro Pro Lys Cys Ser Ser Ala Lys Ala Phe His Thr Glu Ile Ser Ser 295

Ser Asp Asn Asn Thr Leu Thr Ser Ser Asn Ala Tyr Asn Ser Arg Tyr 315 320 310

Trp Ser Asn Asn Pro Lys Val His Arg Asn Thr Glu Ser Val Ser His 330 325

Phe Ser Asp Leu Gly Gln Ser Phe Ser Phe His Ser Gly Asn Ala Asn 340 345

Ile Pro Ser Ile Tyr Ala Asn Gly Thr His Leu Val Pro Gly Gln His 360 365 355

Lys Thr Leu Val Val Thr Ala Asn Arg Gly Ser Ser Pro Gln Val Met 375 370

Ser Arg Ser Asn Gly Ser Val Ser Arg Lys Pro Arg Pro Pro His Thr 385

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acc ag Thr Se		_	a Leu					_			_	_			194
ctc to Leu Se		sn Āl													242
cag at Gln Me 80	et Ph														290
ggc ac Gly Tl 95															338
tta to Leu So				Thr											386
ata g			g Asn												434
cct to Pro So	er Ā														482
gat g Asp V															530
tac c Tyr Lo 175	eu Ti	rp Gl		Leu	Asp	Asn	Thr	Leu	Lys	Leu					578
act co				Gln											626
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att gg Ile G		_	_												735

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- Val Ala Arg Gly Gln Thr Ala Val Leu Pro Cys Thr Phe Thr Thr Ser
- Ala Ala Leu Ile Asn Leu Asn Val Ile Trp Met Val Thr Pro Leu Ser 55
- Asn Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly Gln Met
- Phe Asp Gly Ala Pro Arg Phe His Gly Arg Val Gly Phe Thr Gly Thr
- Met Pro Ala Thr Asn Val Ser Ile Phe Ile Asn Asn Thr Gln Leu Ser
- Asp Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro Asp Ile Gly 120
- Gly Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val Pro Pro Ser 130
- Ala Pro His Cys Gln Ile Gln Gly Ser Gln Asp Ile Gly Ser Asp Val
- Ile Leu Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro Thr Tyr Leu 175 165
- Trp Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr Ala Thr Gln 185
- Asp Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser Ala Leu Ser 200 195
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					aca Thr											156
					ggc Gly											204
					ctg Leu											252
					cag Gln											300
					gcc Ala 85											348
					acc Thr											396
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					atc Ile											492
		_			tgc Cys						_	_			_	540
gac	gtc	atc	ctt	ctg	tgt	agt	tca	gag	gaa	ggc	atc	cct	cgg	ccc	acg	588

Asp 160	Val	Ile	Leu	Leu	Cys 165	Ser	Ser	Glu	Glu	Gly 170	Ile	Pro	Arg	Pro	Thr 175	
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1357

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Ser Ser Gly Leu Tyr Gln Cys Val Ala Ser Asn Ala Ile Gly Thr Ser 210 220

Thr Cys Leu Leu Asp Leu Gln Val Ile Ser Pro Gln Pro Arg Ser Val 225 230 235 240

Gly Val Ile Ala Gly Ala Val Gly Thr Gly Ala Val Leu Ile Val Ile 245 250 255

Cys Leu Ala Leu Ile Ser Gly Ala Phe Phe Tyr Trp Arg Ser Lys Asn 260 265 270

Lys Glu Glu Glu Glu Glu Ile Pro Asn Glu Ile Arg Glu Asp Asp 275 280 285

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Ser Ser Glu Asn Asn Thr Leu Thr Ser Ser Asn Thr Tyr Asn Ser Arg 305 310 315 320

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Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp

Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys

Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr

Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly 265

Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile

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Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val 325

Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn 340 345

Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln 355

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Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
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Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
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Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
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Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
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Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
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Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
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Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
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